WHAT IS CLAIMED IS:

1. A detector, which comprises:

a body part receiver;

a pair of nodes positioned at spaced apart locations in the body part receiver to contact a body part positioned in the body part receiver; and,

a pair of magnets, one of said magnets being positioned adjacent one of said nodes, the other of said magnets being positioned adjacent the other of said nodes.

2. The detector as claimed in claim 1, wherein said body part receiver is sized to receive a human digit in contact with said nodes.

3. The detector as claimed in claim 2, wherein said human digit is a finger.

4. The detector as claimed in claim 1, including a magnetically permeable and electrically insulating barrier disposed between each node and said magnet adjacent thereto to prevent contact therebetween.

5. The detector as claimed in claim 1, wherein each node comprises an electrically conducting plate.

6. The detector as claimed in claim 1, including a source that generates an Rf signal having a selected frequency spectrum that is coupled to one of said nodes.

7. The detector as claimed in claim 1, including a receiver coupled to the other of said nodes.

8. The detector as claimed in claim 1, wherein the detector is adapted to detect a characteristic.

9. The detector as claimed in claim 9, wherein the characteristic is an analyte concentration.

10. The detector as claimed in claim 9, wherein the analyte includes a biological molecule.

11. The detector as claimed in claim 9, wherein the analyte comprises glucose.

12. The detector as claimed in claim 9, wherein the analyte comprises a protein.

13. The detector as claimed in claim 9, wherein the analyte comprises hemoglobin A1c.

14. The detector as claimed in claim 9, wherein the analyte comprises a virus.

15. The detector as claimed in claim 9, wherein the analyte comprises an enzyme.

16. The detector as claimed in claim 9, wherein the analyte comprises cholesterol.

17. A detector, which comprises:

a body part receiver;

a pair of nodes positioned at spaced apart locations in the body part receiver to contact a body part positioned in the body part receiver; and,

a pair of magnets, one of said magnets being positioned adjacent one of said nodes, the other of said magnets being positioned adjacent the other of said nodes;

a source that generates an Rf signal having a selected frequency spectrum that is coupled to one of said nodes; and,

a receiver coupled to the other of said nodes.

18. The detector as claimed in claim 17 wherein said magnets comprise permanent magnets.

19. The detector as claimed in claim 18 wherein the permanent magnets are each grade 36 to grade 41 magnets.

20. The detector as claimed in claim 18 wherein the permanent magnets are each NdFeB magnets.